

Technical Data

2020-rev01

Generator Model: SDG30FS			FIRMAN FIRMAN FD4100DY FG31K				
Frequency 50HZ	Frequency 50HZ3Phase4WirePower FactorCosφ=0.8						
RATINGS		PRIM	PRIME POWER		STANDBY POWER		
Voltage	Amps	kVA	kWe	kVA	kVA kWe		
380	46	30	24	33	26		
DEFINITION OF RATING	55 as being the maximum power w	hich a generating	set is capable of de	elivering continuo	usly whilst supplying a		
over 24h of operation shall not exceed 70% of the PRP. Emergency standby power is defined as the maximum power available during a variable electrical power sequence, under the st operating conditions for up to 200h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24h of operation shall not exceed 70% of the ESP. Standard Reference Conditions: air inlet temperature 25°C (77°F), barometric pressure 100kPa [110m (361ft) altitude] and 30% relative humidity. Note: The above ratings may be subject to derate at different operating conditions. Please see the Derate Guidelines on the SUI Key Features: Efficient water cooled diesel engine. Radiator with pressure cap and drain point Fully guarded engine-driven fan Fully welded steel baseframe with lifting points Various fuel system options Heavy duty rubber anti-vibration mountings 24V starter batteries and connecting cables Engine-driven battery charging alternator Spin on oil and fuel filters and dry type air filter elem							
				tificate aintenance Manual eatures available	l Omm		
			Height (H1) = 1090mm Weight=820kg s and designs are subjected to change refer lastest version				

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ENGINE	ENGINE FIRMAN FD4100DY							
				Units	PRIME STANDBY			
	Engine Speed			r/min 1500				
	Gross Power			kWm	30 33			
	Governor/Class				Mechanical			
	Cylinder No.				4			
	Cycle				Four stroke			
	Cylinder arrangement Type of injection Aspiration Cooling mode				Vertical in-line			
					Direct in	/		
					Natually A			
					Water o			
ata	Bore and stroke			mm	100x118			
õ	Compression ratio Displacement			-	18:1			
eral				L	3.707			
General Data	Battery capacity			A/hr	45*2			
U	Direction of rotation(rucing output chu)			0/	Counter clockwise			
	Steady speed regulation			%	≤5			
	Lubricanting Oil Capacity			L	13			
	Coolant Capacity			L	13.4			
	Fuel Tank Capacity				65L(≥8h) 0# Diesel (Natural temperature)			
	Fuel Type Filter system				Adopt lubricating oil , fuel and air filte			
	Exhaust system				Adopt industrial high efficiency			
		100% Load		L/h	7.2	÷ .		
		Jel 75% Load		L/h	5.6			
	Consum	Consumption at 50% Load			4.04			
ALTERN	ALTERNATOR			L/h	FIRMAN FG31K			
				Units				
	Alternato				A.C. Syncl	nronous		
	Rated Voltage Rated Frequency Rated Speed				220V/380V			
					50HZ			
					1500 RPM			
	Poles				4			
ata	Alternator Voltage Regulation			%	≤±1			
	Waveform Distortion			%	no load ≤1.5%; Non-distorting			
lere	Alternator Voltage Regulation Waveform Distortion Telephone Interference Exciting Mode Power Factor			/0	THF≤2 self exciting			
Gen	Exciting Mode Power Factor					5		
	Power Factor Phase & Wires				0.8 3 phase 4 wires			
	Rated Current Efficiency Insulation Class			A	46			
				%	85.80%			
					Н			
	Protection Class				IP23			
	Max. Ambient Temperature			°C	40			
CONTRO					FIRMAN HGM4020M	N		
				gs(W) and shut down alarm (S)				
	1	Automatic control module×1	1	Low oil pressure (W+S)				
5	2	Emergency stop button×1	2	Coolant over temperature(W+S)				
ter			3	Failed start (W)				
Sys	-	3		Battery over and under voltage(W)				
ō	1		5	Battery charge failure(W)				
onti			7	Engine over and under speed (W+S) Gernerator over and und voltage(W+S)				
Ŭ	4	Out put(kva,kW,kvar,cos(phi)		8 Gernerator over and und frequency (W+S)				
Automatic Control System			KW overload trip (W)					
Ĕ	6	Engine speed		10 Delayed over current(W)				
nte	7	Fuel level	11					
	8	Oil pressure	-		·			
	9	Water temperature	1					
	10	Run hours	-					
			•					

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